

Message

From: Healy, Stephen [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=D1638B0A30364C7D98EA7AF410A9CB2A-HEALY, STEPHEN]
Sent: 2/23/2016 6:50:13 PM
To: Blubaugh, Jim [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=1c15073cc92c4613a4d703690e0e327e-Blubaugh, Jim]
CC: Zaremski, Sara [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=d40015f99f1c4082bb7ad8063b62fb9d-Zaremski, Sara]; Greuel, Justin [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=76f822fa08344d0b85f00cb408a6c520-JGREUEL]
Subject: RE: Collaboration on Heavy-Duty Vehicle Regulation Development
Attachments: hd-ghg-tractor-vv-workshop.pdf

Jim,

This email is in response to the inquiry from Russell Roth in regards to the questions from SEEP about the Heavy-Duty GHG Phase 1 program. I suggest that SEEP first review the Phase 1 GHG workshop presentation (please see the attached document) and also review the regulations found in 40 CFR 1037 which cover the bulk of the regulatory requirements for this program. Below is a link to the ECFR for 40 CFR 1037.

http://www.ecfr.gov/cgi-bin/text-idx?SID=6a71bce96a9c49db44035dddf3d43e07&mc=true&tpl=/ecfrbrowse/Title40/40cfr1037_main_02.tpl

I would be happy to participate in a conference call with SEEP to address their questions. I believe their review of the attached presentation and review of the regulations will facilitate a fruitful discussion.

Regarding a contact with California Air Resources Board I suggest they contact Kim Pryor. Kim is the manager of the Compression Ignition Heavy Duty Engine Certification group for ARB. Here is Kim's contact information:

Kim Pryor
Manager Compression Ignition Heavy Duty Engine Certification
kim.pryor@arb.ca.gov
626-575-6640

Please let me know if you have any questions.

Stephen Healy
Mechanical Engineer
EPA OTAQ Compliance Division
Diesel Engine Compliance Center
734--214-4121

From: Roth, Russell [<mailto:Russell.Roth@hq.doe.gov>]
Sent: Friday, February 19, 2016 9:38 AM
To: 'Maurice.Hicks@dot.gov' <Maurice.Hicks@dot.gov>; james.tamm@dot.gov; Blubaugh, Jim <Blubaugh.Jim@epa.gov>; Moran, Robin <moran.robin@epa.gov>; Zaremski, Sara <zaremski.sara@epa.gov>; 'gregory.powell@dot.gov' <gregory.powell@dot.gov>
Cc: Graves, Andrew <Andrew.Graves@EE.Doe.Gov>; McKearin, Josh <Josh.Mckearin@Hq.Doe.Gov>
Subject: FW: Collaboration on Heavy-Duty Vehicle Regulation Development

Dear DOT/NHTSA and EPA Colleagues:

I hope this e-mail finds you all doing well. It has been some time since I last reached out to you on collaboration with our counterparts in Saudi Arabia on efficiency standards. Below is a recent inquiry we received from the Saudi Energy Efficiency Program on HDV regulations development – as many of you will recall, we went through a similar situation on LDV CAFE standards development with the Saudis back in 2014.

I am hopeful that you can help with three things:

1. Can you, or someone you can point me to, help with answering the questions laid out below by our Saudi counterparts?
2. Can you, or some of your colleagues that handle HDV regs, be available for a call with DOE and our Saudi counterparts in the next two weeks?
3. If possible, would you be able to pass along a point of contact at the California Air Resources Board?

Thanks for your time and consideration, and please let me know if you have any questions.

Regards,

Russ

Russell Roth

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From: Nasser Al Ghamdi [<mailto:nasser.meep@gmail.com>]
Sent: Thursday, February 11, 2016 6:31 AM
To: Roth, Russell <Russell.Roth@hq.doe.gov>
Cc: 'Mohammad Ibrahim personal' <mohe00@yahoo.com>
Subject: Collaboration on Heavy-Duty Vehicle Regulation Development

Dear Russ,

I hope my email finds you well.

The transportation team in SEEP is currently developing a regulation to mandate the utilization of aerodynamic devices on heavy-duty vehicles. We understand that CARB in California has been enforcing a similar regulation since 2012. In addition, NHTSA and EPA (Green Way Program) have a wide expertise on the subject.

The team would very much appreciate if we can schedule a call in order to answer the following questions, which mainly focus on the rules and guidelines of the aerodynamic regulations

1. Conditions and technical requirements

- a. What are the references used for specifying the required dimensions for the aerodynamic devices fitted on the HDVs
- b. What is the allowed clearance for the fitted aerodynamic devices and the HDVs
- c. What are the references for the technical requirements for all aerodynamic devices

2. Aerodynamic devices testing and certification

- a. What are the required documents to be submitted by the manufacturers in order to certify the aerodynamic devices

- b. What is the process for verifying the stated fuel savings by the manufacturer on the aerodynamic devices
- c. How to measure the safety aspect of the fitted aerodynamic devices
- d. Is there any tests or simulations performed in order verify the applicability of aerodynamic devices on different HDV models
- e. How are certified aerodynamic devices labeled/identified
- f. What is the criteria for partnering with third party testing facilities

3. Aerodynamic devices verification and inspection methodology

- a. Aerodynamic devices
 - i. What is the inspection methodology for the aerodynamic devices to ensure that only certified devices are fitted on the HDVs
- b. HDV fitted with aerodynamic devices
 - i. How to determine if the right devices designed for the HDVs are fitted as per the manufacturer requirements
 - ii. How to determine if the devices are correctly installed as per the manufacturer requirements

4. Aerodynamic devices enforcement feasibility

- a. Location
 - i. What are the main locations where inspection and enforcement of the regulation are conducted
- b. Enforcing Entity
 - i. Which entity is responsible for enforcing the regulation
- c. Fines
 - i. How are the violation fines structured and amounts
 - ii. In case the violations are repeated, what is the procedure to ensure compliance

Please let me know if require further clarifications on any of the aforementioned points.

Best Regards,

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Nasser A. Al Ghamdi

Saudi Energy Efficiency Program (SEEP)

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